## IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method comprising:

receiving at least one protocol state machine definition for a network protocol, said protocol state machine definition including a plurality of protocol state rules;

parsing the at least one protocol state machine definition to form a set of parsed protocol state rules, said parsed protocol state rules including at least one condition and at least one action associated with the condition:

storing a set of filters in a filter database:

receiving a network flow, said flow including a plurality of packets; and applying the parsed protocol state rules to the plurality of packets in the network flow; wherein the at least one action comprises the instantiation of a filter for the network flow from the set of filters.

- 2. (Original) The method of claim 1, wherein the protocol state rules include rules for analyzing a context for the network flow
- (Original) The method of claim 2, wherein the context for the network flow includes an application layer context.
- 4. (Original) The method of claim 1 wherein the filter comprises a dynamic filter that is instantiated for the duration of the network flow.
- (Original) The method of claim 1, wherein the filter comprises a static filter that is applied during an initiation of the network flow.

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- 6. (Original) The method of claim 1, wherein the at least one action comprises saving the result of the at least one action for use in a later executed rule in the set of parsed protocol state rules.
- 7. (Currently Amended) The method of claim [[1]] 6, further comprising maintaining an expected state for the network flow utilizing the saved result wherein the at least one action comprises deactivating a rule in the set of persed protocol state rules.
- 8. (Original) The method of claim 1, wherein the at least one action comprises activating a rule in the set of parsed protocol state rules.
- 9. (Currently Amended) A system comprising:
- a parser operable to parse at least one protocol state machine definition for a network protocol to a set of parsed protocol state rules, said protocol state machine definition including a plurality of protocol state rules, said parsed protocol state rules including at least one condition and at least one action associated with the condition:
  - a filter database operable to store a set of filters in a filter database; and
- a protocol analysis engine operable to receive a network flow, said flow including a plurality of packets; and apply the parsed protocol state rules to the plurality of packets in the network flow:

wherein the at least one action comprises the instantiation of a filter for the network flow from the set of filters.

- 10. (Original) The system of claim 9, wherein the protocol state rules include rules to analyze a context for the network flow.
- 11. (Original) The system of claim 10, wherein the context for the network flow includes an application layer context.

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- 12. (Original) The system of claim 9 wherein the filter comprises a dynamic filter that is instantiated for the duration of the network flow
- 13. (Original) The system of claim 9, wherein the filter comprises a static filter that is applied during an initiation of the network flow.
- 14. (Original) The system of claim 9, wherein the at least one action comprises saves the result of the at least one action for use in a later executed rule in the set of parsed protocol state rules.
- 15. (Currently Amended) The system of claim [[8]] 2, wherein the at least one action deactivates a rule in the set of parsed protocol state rules.
- 16. (Original) The system of claim 9, wherein the at least one action comprises activates a rule in the set of parsed protocol state rules.
- 17. (Original) The system of claim 9, wherein the protocol analysis engine is further operable to maintain a state table for the network flow.
- 18. (Currently Amended) A <u>tangible</u> machine readable medium <u>having</u> <u>storing</u> machine executable instructions for performing a method comprising:

receiving at least one protocol state machine definition for a network protocol, said protocol state machine definition including a plurality of protocol state rules;

parsing the at least one protocol state machine definition to form a set of parsed protocol state rules, said parsed protocol state rules including at least one condition and at least one action associated with the condition:

storing a set of filters in a filter database:

receiving a network flow, said flow including a plurality of packets; and

applying the parsed protocol state rules to the plurality of packets in the network flow;

wherein the at least one action comprises the instantiation of a filter for the network flow from the set of filters.

- 19. (Original) The machine readable medium of claim 18, wherein the protocol state rules include rules for analyzing a context for the network flow.
- 20. (Original) The machine readable medium of claim 19, wherein the context for the network flow includes an application layer context.
- 21. (Original) The machine readable medium of claim 18 wherein the filter comprises a dynamic filter that is instantiated for the duration of the network flow.
- 22. (Original) The machine readable medium of claim 18, wherein the filter comprises a static filter that is applied during an initiation of the network flow.
- 23. (Original) The machine readable medium of claim 18, wherein the at least one action comprises saving the result of the at least one action for use in a later executed rule in the set of parsed protocol state rules.
- 24. (Original) The machine readable medium of claim 18, wherein the at least one action comprises deactivating a rule in the set of parsed protocol state rules.
- 25. (Original) The machine readable medium of claim 18, wherein the at least one action comprises activating a rule in the set of parsed protocol state rules.